

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re patent application of	)	
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Guo-Quan LU et al.	)	Group Art Unit: 1793
	)	
Serial No.: 10/589,399	)	Examiner: Y. Takeuchi
	)	
Filed: August 14, 2006	)	Atty. Dkt. No.: 124617-00118
	)	
For: NANOSCALE METAL	)	
PASTE FOR INTERCONNECT	)	
AND METHOD OF USE	)	

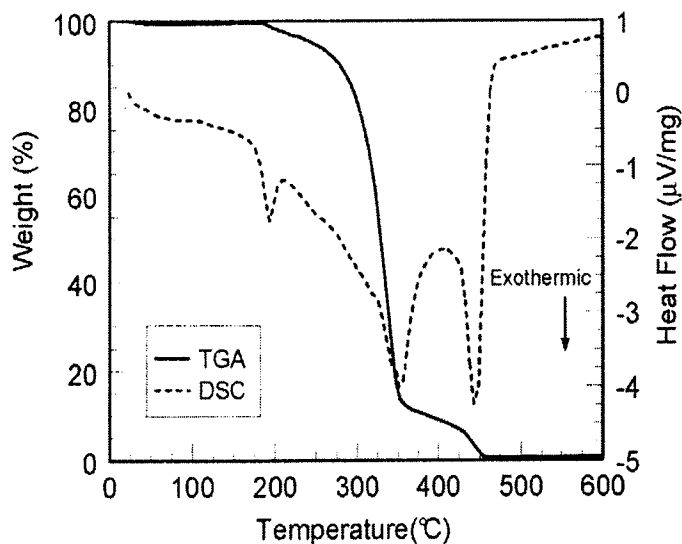
**DECLARATION UNDER 37 C.F.R. §1.132**

Commissioner of Patents  
P.O. Box 1540  
Alexandria, VA 22313-1450

Sir:

In response to the Office Actions dated July 7, 2010, the undersigned declares as follows:

1. I, Jesus Calata, am an inventor of the above-identified patent application.
2. I have read and understood the Office Action and Kydd (U.S. Patent No. 5,882,722). The data described herein was prepared in order to demonstrate that ethyl cellulose has a volatilization temperature of about 450°C.
3. The data was obtained from thermogravimetric analysis (TGA) and differential scanning calorimetry (DSC). I personally performed the necessary experiments to obtain the results using a Netzsch STA 449C thermogravimetric system. The experiment was performed with ethyl cellulose in a simulated air atmosphere (80% nitrogen and 20% oxygen mixture) at a flow rate of 20 cm<sup>3</sup>/min and a heating rate of 10°C/min. The TGA and DSC data obtained is shown in the graph immediately below:



4. The data shows that ethyl cellulose does not completely volatilize until about 450°C. The metal particles of the present invention sinters at a temperature below 300°C. Thus, the volatilization temperature of the ethyl cellulose is greater than the sintering temperature of the metal particles of the present invention.

5. The undersigned hereby declares that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that such willful false statements may jeopardize the validity of the application of any patent issued thereon.

Respectfully submitted,

Date: 09/03/10

Jesus Calata  
Jesus Calata